

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An apparatus for extracting volatile constituents, comprising:

a sample vessel for containing a sample of a solid containing volatile constituents, a gas feeding device for filling the sample vessel with inert gas, a thermostatic chamber for containing said sample vessel and keeping said sample contained in said sample vessel at a predetermined temperature at which said sample is not thermally decomposed, and a canister capable of being having an inactivated inside and depressurized in advance and selectively connected to said sample vessel for collecting constituents evaporating from said sample contained in said sample vessel, and a valve for selectively connecting said canister to said sample vessel contained in said thermostatic chamber and kept at said temperature, thereby depressurizing said sample vessel and collecting constituents evaporating from said sample due to the depressurization, in said canister with said inert gas.

2. (Currently Amended) The apparatus for extracting volatile constituents according to claim 1, wherein said gas feeding device is designed to replace atmospheric air in said sample vessel with said inert gas, and said canister is designed to be depressurized to about  $1 \times 10^2$ Pa in advance and selectively connected to said

~~sample vessel to collect constituents evaporating from said sample by sucking said constituents with negative pressure all the constituents that evaporate from the sample when said canister is selectively connected to said sample vessel.~~

3. (Currently Amended) A method of extracting volatile constituents, comprising the steps of filling a sample vessel containing a sample of a solid containing volatile constituents with inert gas to thereby replace atmospheric air in said sample vessel with said inert gas and keeping said sample at a predetermined temperature at which said sample is not thermally decomposed, and thereafter connecting a canister having an inactivated inside and depressurized in advance to said sample vessel in which said sample is kept at the temperature at which said sample is not thermally decomposed, to thereby depressurize said sample vessel and collect constituents evaporating from said sample due to the depressurization, in said canister with said inert gas.

4. (Original) The method of extracting volatile constituents according to claim 3, wherein He or N<sub>2</sub> is used as said inert gas.

5. (Currently Amended) The method of extracting volatile constituents according to claim 3, wherein the temperature at which said sample is kept is predetermined to be a temperature which ~~does not allow the volatile constituents contained in said sample to be thermally decomposed and produce unexpected secondary products at which the sample does not release volatile constituents through thermal decomposition.~~